

Clackamas Community College
Online Course/Outline Submission System

Show changes since last approval in red

Print

Edit

Delete

Back

Reject

Publish

Section #1 General Course Information

Department:Apprenticeship

Submitter

First Name: Shelly

Last Name: Tracy

Phone: 0945

Email: shellyt

Course Prefix and Number:APR - 227PB

Credits:3

Contact hours

Lecture (# of hours): 33

Lec/lab (# of hours):

Lab (# of hours):

Total course hours: 33

For each credit, the student will be expected to spend, on average, 3 hours per week in combination of in-class and out-of-class activity.

Course Title:Plumbing Gas Venting & Drains

Course Description:

Introduces apprentices to the basic venting of gas appliances, mathematics to calculate offsets for plumbing systems, and cylindrical & rectangular tanks; storm drain systems and isometric drawings.

Type of Course:Career Technical Apprenticeship

Can this course be repeated for credit in a degree?

No

Does this course map to any general education outcome(s)?

No

Is this course part of an AAS or related certificate of completion?

Yes

Name of degree(s) and/or certificate(s):AAS.CONSTRUCTPB & CC>CONSTRUCTPB

Are there prerequisites to this course?

Yes

Pre-reqs:Successful completion of APR-217

Have you consulted with the appropriate chair if the pre-req is in another program?

No

Are there corequisites to this course?

No

Are there any requirements or recommendations for students taken this course?

No

Are there similar courses existing in other programs or disciplines at CCC?

No

Will this class use library resources?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F Only

Audit:No

When do you plan to offer this course?

Not every term

Is this course equivalent to another?

If yes, they must have the same description and outcomes.

No

Will this course appear in the college catalog?

No

Will this course appear in the schedule?

No

Student Learning Outcomes:

Upon successful completion of this course, students should be able to:

1. calculate size and install venting materials to meet local code requirements,
2. calculate offsets, tank capacities, and ratios;
3. size and install storm drainage to meet needs and local code requirements,
4. apply understanding of conduction, convection and radiation heat transfer to provide proper insulation.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Venting of gas appliances.
2. Mathematics of offsets.
3. Capacities, volumes, ratio pipe capacities.
4. Storm drainage.
5. Thermal expansion.
6. Isometric drawings and practice.
7. Heat transfer through conduction.
8. Radiant floor systems.

Does the content of this class relate to job skills in any of the following areas:

- | | |
|--------------------------------------|-----------|
| 1. Increased energy efficiency | No |
| 2. Produce renewable energy | No |
| 3. Prevent environmental degradation | No |
| 4. Clean up natural environment | No |
| 5. Supports green services | No |

Percent of course:0%

First term to be offered:

Next available term after approval

:
